CERTIFICATION STANDARDS & CORE PLUS DEVELOPMENT GUIDE
SPRDE – SYSTEMS ENGINEERING   LEVEL1

Type of Assignment	Representative Activities
Functional Specialist	● Plans, organizes, and conducts engineering activities relating to the design, development, fabrication, installation, modification, sustainment, and/or analysis of systems or systems components for a functional specialty (i.e., reliability and maintainability, systems safety, materials, avionics, structures, propulsion, chemical/biological, human systems interfaces, weapons, etc.). ● Demonstrates how systems engineering technical processes and technical management processes guide engineering activities for a functional specialty.
Software/IT Engineer	● Plans, organizes, and conducts engineering activities relating to the design, development, and/or analysis of software and information technology systems or systems components. ● Demonstrates how systems engineering technical processes and technical management processes guide software development and/or IT integration activities.
Developmental Engineer	● Plans, organizes, and conducts engineering design and development activities for systems or systems components. ● Demonstrates how systems engineering technical processes and technical management processes guide design and development activities.
Science and Technology (Research Eng or Scientist)	● Plans, organizes, and conducts science and technology research and engineering activities supporting acquisition programs, projects, or activities. ● Demonstrates how systems engineering technical processes and technical management processes guide science and technology research and engineering activities.

Core Certification Standards (Required for DAWIA certification.)	
Acquisition Training	● **ACQ 101** Fundamentals of Systems Acquisition Management
Functional Training	● **SYS 101** Fundamentals of Systems Planning, Research, Development, and Engineering
Education	● Baccalaureate or graduate degree in a technical or scientific field such as engineering, physics, chemistry, biology, mathematics, operations research, engineering management, or computer science
Experience	● 1 year of technical experience in an acquisition position from among the following career fields/paths: SPRDE-SE, SPRDE-S&T, IT, T&E, PQM, FE, PM, or LCL ● Similar experience gained from other government positions or industry is acceptable as long as it meets the above standards

Core Plus Development Guide (Desired training, education, and experience)	Type of Assignment			
Training	**Func Spc**	**Soft/IT Eng**	**Dev Eng**	**S&T (Res Eng/Sci)**
BCF 102 Fundamentals of Earned Value Management	✔	✔		
BCF 106 Fundamentals of Cost Analysis	✔			
BCF 107 Applied Cost Analysis **(R)**	✔			
CLE 001 Value Engineering	✔			
CLE 004 Introduction to Lean Enterprise Concepts	✔	✔	✔	✔
CLE 009 System Safety in Systems Engineering	✔		✔	
CLE 011 Modeling and Simulation for Systems Engineering	✔	✔	✔	✔
CLE 015 Continuous Process Improvement Familiarization	✔	✔	✔	✔
CLE 036 Engineering Change Proposals for Engineers	✔	✔	✔	✔
CLL 011 Performance-Based Logistics	✔			
CLM 013 Work-Breakdown Structure	✔	✔	✔	✔
CLM 016 Cost Estimating	✔	✔	✔	✔
CLM 017 Risk Management	✔	✔	✔	✔
IRM 101 Basic Information Systems Acquisition		✔		
LOG 101 Acquisition Logistics Fundamentals	✔		✔	
LOG 102 Systems Sustainment Management Fundamentals	✔			
PQM 101 Production, Quality, and Manufacturing Fundamentals	✔		✔	
SAM 101 Basic Software Acquisition Management		✔		
TST 102 Fundamentals of Test and Evaluation	✔	✔	✔	✔
Education				
● None specified				
Experience				
● One (1) year of technical experience (in addition to core certification experience)				

Notes:

1 The Core Certification Standards section lists the training, education, and experience REQUIRED for certification at this level.

2 "(R)" following a course title indicates the course is delivered as resident based instruction.

3 When preparing your IDP, you and your supervisor should consider the training, education, and experience listed in this Core Plus Development Guide if not already completed.